

Subject Index, Volume 7, 1993

- Academic architecture, 226–228, 754
 Accountability, 30–31
Acer saccharinum (silver maple), 178
 Acidification, lake, crayfish extirpation and, 184–187
 Acid rain, boreal toad disappearance and, 359
Acipenser baeri (Biberian sturgeon), 777–778
Acipenser dabryanus (Yangtze sturgeon), 779
Acipenser fulvescens (lake sturgeon), 780
Acipenser gueldenstaedti (Russian sturgeon), 778
Acipenseriformes, 773–774
Acipenser medirostris (Sakhalin sturgeon), 777
Acipenser nudiiventris (ship sturgeon), 777
Acipenser oxyrinchus (American sturgeon), 779–780
Acipenser oxyrinchus (shortnose sturgeon), 780
Acipenser persicus (Persian sturgeon), 778–779
Acipenser ruthenus (sterlet), 777
Acipenser schrenckii (Amur sturgeon), 779
Acipenser stellatus (stellate sturgeon), 778
Acipenser sturio (Atlantic sturgeon), 774
Acipenser transmontanus (American white sturgeon), 780
Actinostemon concolor (parabel), 69–71
Actitis macularia (Spotted Sandpipers), 160–167
 Adrenal cortical hormones, stress and, 359
 Aerographic fragmentation, 503–507
Aeromonas hydrophila infection, boreal toad extinction and, 355–360
Aesculus octandra (Buckeyes), 434
 Africa. *See also specific African countries*
 elephant ownership and, 943–944
 Great Lakes of. *See* Great Lakes, African
 high biodiversity centers, 901–907
 wildlife law enforcement and, 611–626
 African elephant (*Loxodonta africana*)
 poaching, law enforcement and, 611–626
 population viability analysis, 602–609
 Alaska Lands Legislation, 35
 Allele frequency
 changes, in captive breeding, 416–419
 reduction, gene conservation and, 597–599
 Alligator (*Alligator mississippiensis*), 948
 Allozyme frequency. *See also* Genetic variation
 Allspice (*Pimenta dioica*), 40–43
 Alternative land use pressures, extractive systems and, 47–48
 Amazonians, native. *See* Indigenous people
 Amazon river dolphin (*Inia geoffrensis*), 792–793
 American lobster (*Homarus americanus*), 394
 American Passenger Pigeon (*Ectopistes migratorius*), 391–392
 American Redstart (*Setophaga ruticilla*), 869–870
 American sea mink (*Mustela macrondon*), 393
 American sturgeon (*Acipenser oxyrinchus*), 779–780
 American white sturgeon (*Acipenser transmontanus*), 780
 Amphibians. *See also specific amphibians*
 clearcutting and, 365–366
 extinction, 355–356
Amsinckia grandiflora, new population creation, 510–524
 Amur sturgeon (*Acipenser schrenckii*), 779
 Anchovy (*Engraulis ringens*), 792
 Animal phyla
 in ocean communities, 762, 763
 in pelagic Ocean, 763
 Animal-plant-climate linkages, 262–263
 Animal rights, 465–466
Anolis carolinensis (lizards), 359
Antelope cervicapra (blackbuck), 874–879
 Ants, species estimates and, 546–567
 Apache trout (*Oncorhynchus apache*), 418
 Appalachian forest, understory herb recovery after deforestation, 436–438
 Aquatic mammal conservation, in Latin America, 788–793
Aquilaria (spp.) (gaharu), 43, 45
 Architecture, academic, 226–228, 754
 Arizona, perennial grass cover, livestock grazing and, 371–376
 Arthropods
 indicator assemblages, monitoring of, 800–802
 as indicators for inventory and monitoring, 798–799
 inventory of, 799
 monitoring strategy, 802–803
 Asian wild horse (*Egyus przewalskii*), 13–15
 Atlantic ocean, loggerhead turtle population in, 834–841
 Atlantic sturgeon (*Acipenser sturio*), 774
 Attitudes, human
 toward animal destructiveness, 931
 toward black-footed ferret reintroduction, 570–579
 toward invertebrates, 848–851, 851–853
 toward prairie dogs, 572–579
 Auckland Islands Merganser (*Mergus australis*), 393
 Australia
 aboreal marsupials in corridors, 627–629
 intertidal mollusc population collections, 378–388
Austrococlea constricta, 381–388
 Bald cypress (*Taxodium distichum*), 179, 180
 Bald Eagle (*Haliaeetus leucocephalus*), 91
 Basal metabolic rate, ambient temperature and, 264–265
 Bats, species richness prediction, 485
 Beef exports, promotion, 143–144
 Behavior, of cross-fostered vs. captive-reared killdeer, 164–166
 Beluga sturgeon (*Huso huso*), 778
 Bighorn sheep (*Ovis canadensis canadensis*), 908–914
 Biodiversity
 of bull trout, 859–863
 of carabids, 558–559
 channelization and, 181
 of chalcids, 712–717
 conservation, indigenous people and, 248–254, 253–254
 conservation biologists and, 252–253
 database, 64
 defined, 761
 Endangered Species Act and, 206–207
 of fishes, in Lake Tanganyika, 657–665
 of fish faunas in African Great Lakes, 634–641
 misuse of concept, 959–960
 of pelagic ocean, 760–769
 rapid assessment of, 562–567
 sediment pollution of Lake Tanganyika and, 667–675
 wildlife and, 204–205
 Biodiversity technicians, rapid assessment of biodiversity, 562–567
 Biological richness. *See* Species richness
 Biosphere Reserve, Mapimí, Mexico, 398–405
 Birds. *See also specific bird species*
 African, species richness of, 901–907
 grassland, Conservation Reserve Program and, 934–936
 linkage with climate, physiological constraints of, 264–265
 midcontinental shorebird migrations, 533–541
 neotropical migratory, geographic range fragmentation, 501–509
 North American insectivorous, declines in, 76–86
 observations in the field, 466–467
 seed dispersal by, acceleration of ecological succession and, 279–287
 species richness, altitude and, 420–421, 422
 wintering North American, climatic change and, 263–264
 Blackbuck (*Antelope cervicapra*), 874–879
 Black-footed ferrets (*Mustela nigripes*), 569–579
 Black rats (*Rattus rattus*), 316–323
 Black rhinos (*Diceros bicornis*), 920–923
 Black willow (*Salix nigra*), 178, 179

Subject Index, Volume 7, 1993

- Academic architecture, 226-228, 754
 Accountability, 30-31
Acer saccharinum (silver maple), 178
 Acidification, lake, crayfish extirpation and, 184-187
 Acid rain, boreal toad disappearance and, 359
Acipenser baeri (Biberian sturgeon), 777-778
Acipenser dabryanus (Yangtze sturgeon), 779
Acipenser fulvescens (lake sturgeon), 780
Acipenser gueldenstaedti (Russian sturgeon), 778
Acipenseriformes, 773-774
Acipenser medirostris (Sakhalin sturgeon), 777
Acipenser nudiiventris (ship sturgeon), 777
Acipenser oxyrinchus (American sturgeon), 779-780
Acipenser oxyrinchus (shortnose sturgeon), 780
Acipenser persicus (Persian sturgeon), 778-779
Acipenser ruthenus (sterlet), 777
Acipenser schrenckii (Amur sturgeon), 779
Acipenser stellatus (stellate sturgeon), 778
Acipenser sturio (Atlantic sturgeon), 774
Acipenser transmontanus (American white sturgeon), 780
Actinostemon concolor (parabel), 69-71
Actitis macularia (Spotted Sandpipers), 160-167
 Adrenal cortical hormones, stress and, 359
 Aerographic fragmentation, 503-507
Aeromonas hydrophila infection, boreal toad extinction and, 355-360
Aesculus octandra (Buckeyes), 434
 Africa. *See also specific African countries*
 elephant ownership and, 943-944
 Great Lakes of. *See* Great Lakes, African
 high biodiversity centers, 901-907
 wildlife law enforcement and, 611-626
 African elephant (*Loxodonta africana*)
 poaching, law enforcement and, 611-626
 population viability analysis, 602-609
 Alaska Lands Legislation, 35
 Allele frequency
 changes, in captive breeding, 416-419
 reduction, gene conservation and, 597-599
 Alligator (*Alligator mississippiensis*), 948
 Allozyme frequency. *See also* Genetic variation
 Allspice (*Pimenta dioica*), 40-43
 Alternative land use pressures, extractive systems and, 47-48
 Amazonians, native. *See* Indigenous people
 Amazon river dolphin (*Inia geoffrensis*), 792-793
 American lobster (*Homarus americanus*), 394
 American Passenger Pigeon (*Ectopistes migratorius*), 391-392
 American Redstart (*Setophaga ruticilla*), 869-870
 American sea mink (*Mustela macrondon*), 393
 American sturgeon (*Acipenser oxyrinchus*), 779-780
 American white sturgeon (*Acipenser transmontanus*), 780
 Amphibians. *See also specific amphibians*
 clearcutting and, 365-366
 extinction, 355-356
Amstinkia grandiflora, new population creation, 510-524
 Amur sturgeon (*Acipenser schrenckii*), 779
 Anchovy (*Engraulis ringens*), 792
 Animal phyla
 in ocean communities, 762, 763
 in pelagic Ocean, 763
 Animal-plant-climate linkages, 262-263
 Animal rights, 465-466
Anolis carolinensis (lizards), 359
Antelope cervicapra (blackbuck), 874-879
 Ants, species estimates and, 546-567
 Apache trout (*Oncorhynchus apache*), 418
 Appalachian forest, understory herb recovery after deforestation, 436-438
 Aquatic mammal conservation, in Latin America, 788-793
Aquilaria (spp.) (gaharu), 43, 45
 Architecture, academic, 226-228, 754
 Arizona, perennial grass cover, livestock grazing and, 371-376
 Arthropods
 indicator assemblages, monitoring of, 800-802
 as indicators for inventory and monitoring, 798-799
 inventory of, 799
 monitoring strategy, 802-803
 Asian wild horse (*Egyus przewalskii*), 13-15
 Atlantic ocean, loggerhead turtle population in, 834-841
 Atlantic sturgeon (*Acipenser sturio*), 774
 Attitudes, human
 toward animal destructiveness, 931
 toward black-footed ferret reintroduction, 570-579
 toward invertebrates, 848-851, 851-853
 toward prairie dogs, 572-579
 Auckland Islands Merganser (*Mergus australis*), 393
 Australia
 aboreal marsupials in corridors, 627-629
 intertidal mollusc population collections, 378-388
Austrococlea constricta, 381-388
 Bald cypress (*Taxodium distichum*), 179, 180
 Bald Eagle (*Haliaeetus leucocephalus*), 91
 Basal metabolic rate, ambient temperature and, 264-265
 Bats, species richness prediction, 485
 Beef exports, promotion, 143-144
 Behavior, of cross-fostered vs. captive-reared killdeer, 164-166
 Beluga sturgeon (*Huso huso*), 778
 Bighorn sheep (*Ovis canadensis canadensis*), 908-914
 Biodiversity
 of bull trout, 859-863
 of carabids, 558-559
 channelization and, 181
 of chlidids, 712-717
 conservation, indigenous people and, 248-254, 253-254
 conservation biologists and, 252-253
 database, 64
 defined, 761
 Endangered Species Act and, 206-207
 of fishes, in Lake Tanganyika, 657-665
 of fish faunas in African Great Lakes, 634-641
 misuse of concept, 959-960
 of pelagic ocean, 760-769
 rapid assessment of, 562-567
 sediment pollution of Lake Tanganyika and, 667-675
 wildlife and, 204-205
 Biodiversity technicians, rapid assessment of biodiversity, 562-567
 Biological richness. *See* Species richness
 Biosphere Reserve, Mapimí, Mexico, 398-405
 Birds. *See also specific bird species*
 African, species richness of, 901-907
 grassland, Conservation Reserve Program and, 934-936
 linkage with climate, physiological constraints of, 264-265
 midcontinental shorebird migrations, 533-541
 neotropical migratory, geographic range fragmentation, 501-509
 North American insectivorous, declines in, 76-86
 observations in the field, 466-467
 seed dispersal by, acceleration of ecological succession and, 279-287
 species richness, altitude and, 420-421, 422
 wintering North American, climatic change and, 263-264
 Blackbuck (*Antelope cervicapra*), 874-879
 Black-footed ferrets (*Mustela nigripes*), 569-579
 Black rats (*Rattus rattus*), 316-323
 Black rhinos (*Diceros bicornis*), 920-923
 Black willow (*Salix nigra*), 178, 179

- Blanding's turtles (*Emydoidea blandingii*), 826–832
 Blindness, hereditary, in captive wolf population, 592–600
 Bluefin tuna (*Thunnus thynnus*), 229–233
 Blue-Winged Warblers (*Vermivora pinus*), 870
 Bobcats (*Felis rufus*), 866, 869
 Body mass
 during hibernation, thermal effects on, 411–413
 in rarity classification of neotropical mammals, 586–591
 wintering North American birds and, 265
 Body temperature, immunological response and, 359–360
 Bolsón de Mapimí, 399–400
 Boreal toad (*Bufo boreas boreas*), 355–360
 Borneo, Baram River, 440–441
 Bottlenecks, genetic changes in, 334–340
Bouteloua (spp.) (grama), grazing effects on, 371–376
 Breeding range, of North American insectivorous songbirds, 76–86
 Brook trout (*Salvelinus fontinalis*), 857, 860–862
 Brown-Headed Cowbirds (*Molothrus ater*), 309–314
 Brown trout (*Salmo trutta*), 359
 Buckeyes (*Aesculus octandra*), 434
 Buffer zone agroforestry system, mammalian use of, 928–932
Bufo boreas boreas (boreal toad), 355–360
Bufo canorus (Yosemite toad), 883
 Bull trout (*Salvelinus confluentus*), 856–863
 Bushy-tailed woodrat (*Neotoma cinerea*), 529–530
 Butterfly sampling, species richness prediction, 483–486
- Calman crocodilus* (caiman), 358
Calamus (spp.) (rattan), 43
 California
 San Francisco Bay area, Cowbird parasitism in, 309–314
 Santa Ana Mountains, cougar population of, 99–100
 Sequoia and Kings Canyon National Parks, 882–888
 topology of extinction/endangerment of native fishes, 342–352
 California Condor (*Gymnogyps californianus*), 148–158, 392
 CAMPFIRE project, 944
Camptorhynchus labradorius (Labrador Duck), 393
 Canada
 lake acidification, crayfish extirpation and, 184–187
 Tsitka river, 440, 441
 Canada Warbler (*Wilsonia canadensis*), 869–870
 Canary Islands Black Oystercatcher (*Haematopus ostralegus meadewaldi*), 393
 Candelilla plant (*Euphorbia antispyllitica*), 400
Canis lupus (wolf), 91, 95, 947
 blackbuck predation, 874–879
 captive, hereditary blindness in, 592–600
 pedigree, 594
 Captive breeding
 allele frequency changes in, 416–419
 of endangered sturgeon, 781
 equalization of family size and, 122–130
 equalization of family size and, 416–419
 genetic drift and, 416–419
 vs. cross-fostering, 160–167
 of wolves, hereditary blindness in, 592–600
 Carbon dioxide
 global problem of, 133–134
 greenhouse effect and, 257
 sequestration, 755–756
 Carbon fixation, by phytoplankton, 762
 Carbon-offset method, 755–756
 Carbon sinks, 134
Caretta caretta (loggerhead turtles), 834–841
 Caribbean monk seal (*Monachus tropicalis*), 393, 793
 Caribid assemblages, clearcutting and, 551–559
Caridina nilotica (prawn), 687–698
Caring for the Earth, 938–940, 941–942
 conservation definition, 427–428
 conservation-development relationship and, 20–26
 Carrying capacity
 in bird population simulation, 325–332
 for cougars, 97
- Castanea dentata* (chestnut), 433
 Cave entrance modifications, Indiana bat endangerment and, 407–414
Cellana tramoserica, 381–388
Ceratotherium simum (white rhinos), 920
Cercopithecus aethiops (vervet monkeys), 626
Cerocebus galeritus galeritus (crested mangaby), 109–119
 Cetacean fishery, in Peru, 792
Chamaedorea (spp.) (xate), 40, 41
 Channel catfish (*Ictalurus punctatus*), 358–359
 Channel migration, in Southeastern coastal plain, 176–181
Charadrius melodus (Piping Plover), 89, 166, 581–584
Charadrius vociferus (Killdeer), 160–167
Chendytes lawi (Flightless Duck), 393
 Chestnut blight (*Endothia parasitica*), 433
 Chestnut (*Castanea dentata*), 433
 Chestnut-Sided Warbler (*Dendroica pensylvanica*), 869–870, 871
 Chicle (*Manikara zapota*), 40–43, 46
 Chinese paddlefish (*Psephurus platus*), 779
 Chondrosteans, 773–774
 North American species, 779–782
 threatened status of, 774–779
 Chum salmon (*Oncorhynchus keta*), 345, 349
 Cichlids
 haplochromine, 720–727
 Nile perch introductions in Lake Victoria and, 687–698
 of Lake Malawi, 712–717
 of Lake Victoria, 719–727
 Cichlids, endangered, conservation of, 701–710
 CITES. See Convention on International Trade in Endangered Species (CITES)
 Citizen involvement, 247
 Clearcutting, 871
 amphibian abundance and, 365–366
 boreal ground-beetle assemblages and, 551–559
 herbaceous understories and, 433–435
 local populations/communities of salamanders and, 367
 regional populations of salamanders and, 367–368
 salamander abundance and, 365–366
 simulated forest-interior bird population levels and, 325–332
 Clench equation, 482–483
 CLIMAP experiment, 767–768
 Climate-animal-plant linkages, 262–265
 Climatic change
 pelagic Ocean biodiversity and, 765–766
 policy implications, 266–267
 rapid, large-scale vegetative responses, 261–262
 transient regional, 260–261
 during transition to new equilibrium, 259
 wintering North American birds and, 263–264
 Climatic models, multiscale ecological models and, 256–267
 Clupeids, 681
 Clupeid (*Stolothrissa tanpancae*), 679
 Cod (*Gadus morhua*), 394
 Coho salmon (*Oncorhynchus kisutch*), 345, 348
 Collection of organisms
 in field experimentation, 467
 by humans, intertidal mollusc populations and, 378–388
 Colleges. See Universities
Colobus badius rufomitratus (red colobus), 109–119
 Colorado, boreal toad extinction in, 355–360
 Commercial exploitation, 24. See also Fishing
 of aquatic mammals, in Latin America, 790–794
 Compatibility doctrine, 30–31, 32
 U.S. National Wildlife Refuge System and, 33–36
 Computer simulations. See Simulation model(s)
 Condor geographic information system (GIS) database, 148, 150–158
 Conifers, Crossbills and, 473–477
 Conservation. See also under specific species
 of cichlid fish fauna in Lake Malawi, 712–717
 indigenous people and, 424–428
 value of, 247
 Conservation biologists
 biodiversity and, 252–253
 human population control and, 1–3
 overabundance issue and, 946–948

- Conservation Clearing House, 201–203
 Conservation education. *See* Education
 Conservation genetics, of bull trout, 856–863
 Conservation incentives, extractive systems and, 45
 Conservation planning, in Indo-Pacific region, 61–62
 Conservation potential/threat index (CPTI), for Indo-Pacific region, 53–63
 Conservation Reserve Program (CRP)
 ecological benefits, 132–137
 grassland birds and, 934–936
 landscape fragmentation and, 134–136
 wildlife habitat and, 136–137
 Conservation site selection, vegetation analysis for, 66–75
 Constituency, global, 752–754
 Continental movements, 766
 Convention on International Trade in Endangered Species (CITES)
 hawksbill turtle and, 603
 international bluefin tuna fishing and, 230–232
 ivory trade ban, 603
 ivory trade band, 603, 608
 Coordinadora de las Organizaciones Indígenas de la Cueva Amazónica (COICA), declaration of, 249–250
 Corridor(s)
 for cougar, 94–106
 for cougars, 94–106
 design, ecological principles of, 627–629
 for shorebird migration, 534
 Southern Mesoamerican Biological, 243–244
 Corticosterone
 immunosuppression in reptiles and, 359
 stress and, 359
 Cortisol, stress and, 359
 Costa Rica
 National Park System, 239–247
 Tortuguero beach, hawksbill nesting population decline, 925–927
 Costa Rica National Park System, 239–247
 national support for, 241
 planning, 242–244
 Cottonwood (*Populus deltoides*), 178
Coturnix coturnix (Quail), 317, 319
 Cougar (*Felis concolor*)
 habitat corridors, 94–106
 minimum habitat areas, 94–106
 CPTI (conservation potential/threat index), for Indo-Pacific region, 53–63
 Crayfish (*Orconectes virilis*), 184–187
 Crested mangabey (*Cercocebus galeries galeries*), habitat of, 109–119
 Crop damage, from animals, 931
 Crossbills (*Loxia*), conifers and, 473–477
 Cross-fostering, vs. captive-rearing, 160–167
 CRP (Conservation Reserve Program), ecological benefits, 132–137
Cynomys ludovicianus (prairie dogs), 375, 572–579
Cypripedium pubescens (red shiners), 334–336

Dactylis, 320–322
 Damar (*Dipterocarpus* (spp.)), 43
 Darling, Jay Norwood "Ding," 200–203
 Debt, as environmental initiative, 145–146
 Debt buybacks, 146
 Debt-for-nature swaps
 in Costa Rica, 241
 in Latin America, 145–146
 Defenders of Wildlife vs. Andrus, 34–35
 Deforestation, 133. *See also* Clearcutting
 herbaceous understory recovery and, 436–438
 in Indo-Pacific region, 56
 in Lake Tanganyika basin, 669–670
 in Latin America, foreign debt and, 140–147
 migratory forest songbird decline and, 76–83
 in Wisconsin, 134–135
 Dehorning of rhinos, as conservation strategy, 920–923
 Demographic fragmentation, 503–507
 Demographic monitoring, of new population, 515–516
Dendroica chrysoparia (Golden-Cheeked Warbler), 89
Dendroica kirtlandii (Kirkland's Warbler), 948
Dendroica magnolia (Magnolia Warbler), 869–870
Dendroica pensylvanica (Chestnut-Sided Warbler), 869–870, 871
 Detection of illegal exploitation, penalties and, 615–616
 Diatom, species richness patterns, Lake Tanganyika, 671–675
Diceros bicornis (black rhinos), 920–923
Dipterocarpus (spp.) (damar), 43
 Dolphins, tuna fishing and, 791–792
Drosophila melanogaster, equalization of family sizes and, 122–130
 Duck Stamp Act, 33, 201
 Dummy nest experiments, of nest predation of Hawaiian forest birds, 316–323
Durio (spp.) (durian), 44
 Dusky dolphins (*Lagenorhynchus obscurus*), 792

 Eastern hemlock (*Tsuga canadensis*)
 regeneration, deer browsing and, 889–898
 seed and seedling development, 891–892
 Eastern spinner dolphin (*Stenella longirostris orientalis*), 791
 Ecological benefits, of Conservation Reserve Program, 132–137
 Ecological field experimentation, ethics, 463–470
 Ecological hot-spot approach, 54
 Ecologically sustainable use, at biological community level, 24–25
 Ecological studies
 on animals, ethics of, 465–466
 climatic model scales and, 259–260
 Ecological succession, accelerating, in fragmented landscape, 279–287
 Ecological surveys, in Lake Tanganyika, 683–684
 Ecological value systems, 465
 Economic factors
 in deforestation in Latin America, 140–147
 in development of National Parks System in Costa Rica, 246
 elephants and, 943–944
 incentives for crime and wildlife laws, 612–613
 Ecosystem-level studies, ethics of, 467
 Ecosystem studies, global warming and, 258–259
 Ecotourism, 429–432
 Edge effects, in simulating interior bird population for forest management, 325–332
 Education. *See also* Universities
 conservation, 246–247
 ecological, national program for, 204–205
 of global constituency, 752–754
 on population growth, 3
 program development, 241–242
 transdisciplinary, 10–12
 Eelgrass (*Zostera*), 393
 Elephants, economic factors and, 943–944
Empidonax minimus (Least Flycatcher), 869–870
Emydoidea blandingii (Blanding's turtles), 826–832
 Endangered species
 of aquatic mammals, in Latin America, 78
 Chondrosteans, from territory of former Soviet Union and China, 774–779
 listing, analysis of, 87–93
 native California fishes, topology of, 342–356
 Endangered Species Act, 34, 87, 88, 206–207
Endothia parasitica (chestnut blight), 433
 Energy transfers, invertebrates and, 846
Engraulis ringens (anchovy), 792
Enhydra lutris nereis (sea otter), 793
Enhydra lutris (sea otter), 393
 Enterprise for American Initiative, 245
 Environmental initiative, debt as, 145–146
 Environmental programs, debt-induced funding shortages, 145
 Environmental quality indicators, invertebrates as, 847
 Environmental studies, 10–12
 Equalization of family size. *See* Family size equalization
Equus przewalskii (Asian wild horse), 13–15
Eretmochelys imbricata (hawksbill turtle), 925–927
 Ethics
 of ecological field experimentation, 462–470
 of Olympic goat controversy, 918–919
Euphausia (spp.), 764

- Euphorbia antisiphilitica* (candelilla plant), 400
Eusideroxylon zwageri (ironwood), 43
 Expatriation, 764–765
 Exploitative mutualism, 663
 Exploited species, density, success of extractive system and, 41–42
 Export promotion hypothesis, 142–143
 Extant populations, *Equus przewalskii* (Asian wild horse), 13–15
 Extension buffering, 928
 Extinctions, of livestock breeds, 818–819
 Extinct species
 marine, biogeography of, 391–395
 native California fishes, topology of, 342–356
- Falco peregrinus* (Peregrine Falcon), 91
Falco punctatus (Mauritius Kestrel), 169–175
 False null hypothesis, probability of accepting, statistical power method and, 489–500
 Familial Importance Value (FIV), 69
 Family size equalization
 captive breeding adaptation delay, 416–419
 for captive breeding programs, 122–130
 FAO Global Data Bank, for domestic livestock, 816, 819, 823
 Fecundity
 density-dependence in, 97–98
 in simulating interior bird population for forest management, 325–332
 Federal Livestock Exclosure (FLEX) system, 731–733
Felis catus (feral cats), 316, 317
Felis concolor coryi (Florida panther), 91
Felis rufus (bobcats), 869
 Feral cats (*Felis catus*), 316, 317, 320
 Field experimentation, ethics of, 463–470
 Finance, *See* Funding
 Fishes, *See also specific fish species*
 evolution, in African Great Lakes, 635
 extinction/endangerment topology of, 342–352
 faunas, in African Great Lakes, 634–641
 introduced, mountain yellow-legged frog elimination and, 882–888
 littoral communities, in Lake Tanganyika, 657–665
 pelagic, 690
 species richness, in Africa, 903–907
 species richness patterns, Lake Tanganyika, 671–675
 Fishing
 international tuna, 229–233
 in Lake Tanganyika, 680–682
 for sturgeon, 781
 FIV (Familial Importance Value), 69
 Flightless Duck (*Chendytes lawi*), 393
 Florida panther (*Felis concolor coryi*), 91
 Flowering plants, species richness, in Africa, 903–907
 Food habits
 of fishes, in Lake Tanganyika, 660–665
 of wolves, 875–876
 Foreign debt, deforestation in Latin America and, 140–147
 Forest attributes, in primate habitat, 109–119
 Forest cover, for Indo-Pacific region, 56, 61, 65
 Forest management, simulated forest-interior bird population levels and, 325–332
 Forest product extraction, 24–25
 Forestry sectoral adjustment programs, 146
 Forests. *See also* Reforestation
 altitudinal distributions, 421, 422
 worldwide decline, 454–456
 Forest succession
 accelerating, in fragmented landscape, 279–287
 facilitation in habitat fragmentation, 279–287
 Fresh Kills Landfill, Staten Island, New York, reforestation on, 271–276
 Frogs (*Rana pipiens*), 358
 Fruits, wild, 43
 Fun for Animals, 918, 954–956
 Funding
 evaluation, for CPTI, 55
 for floristic inventories, 810
 for National Park System in Costa Rica, 240–241
 Funding shortages, debt-induced, environmental programs and, 145
 Fund raising, for National Parks System, in Costa Rica, 245–246
- Gadus morhua* (cod), 394
 Gaharu (*Aquilaria* (spp.)), 43, 45
Gambusia bolbrookii (mosquitofish), 194–198
 Gametophytic self-incompatibility systems, 543
 Gene-drop pedigree analysis, 292–293
 General circulation models (GCMs), 258–260
 Genetic drift, in captive breeding, 416–419
 Genetic variation
 in bull trout, 859–860
 equalization of family sizes and, 122–130
 in founding population, 513–514
 in loggerhead turtles, 835–841
 loss, in Red-Cockaded Woodpeckers, 302–308
 population growth and, 194–198
 in Virgin River chubs, 334–340
 Geographic patterns
 in habitat productivity, 475
 in livestock breed distribution, 816–823
 in shorebird distribution during migration, 535–536
 Geographic range
 fragmentation, abundance in neotropical migratory birds and, 501–508
 of recently extinct marine species, 392–395
 Geological events, pelagic Ocean biodiversity and, 764–765
Gila seminuda (Virgin River chubs)
 management options/implications, 339–340
 postperturbation genetic changes in, 334–339
 Gill net fishing
 incidental harbor porpoise mortality, 189–192
 incidental Vaquita mortality and, 790–791
 Global Environment Facility (GEF) Operations Program, 62–63
 Global warming
 ecological consequences of, 256–267
 ecosystem studies and, 258–259
 greenhouse effect and, 257–258
 Golden-Checked Warbler (*Dendroica chrysoparia*), 89
 Golden-mantled ground squirrel (*Spermophilus lateralis*), 529–530
 Golden-Winged Warbler (*Vermivora chrysoparia*), 869–870
 Government, sectoral reforms, 146
 Grama (*Bouteloua*) (spp.), grazing effects on, 371–376
 Grassland birds, Conservation Reserve Program and, 934–936
 Grasslands, effects of livestock grazing on, 371–376
 Grazing, 31, 32, 371–376, 732
 Great Auk (*Pinguinus impennis*), 393
 Great Basin Mountain Range, United States, boreal mammal extinctions and, 527–531
 Great Lakes, African, 447–449, 632–633. *See also* Lake Malawi; Lake Tanganyika; Lake Victoria
 conservation, limnological perspective, 644–653
 fish faunas of, 634–641
 limnology of, 644–653
 speciation mechanisms, 639
 Great Lakes forests, long-term ecosystem dynamics, 892–893
 Great Salinity Anomaly, 766–767
 Great sturgeon (*Huso huso*), 778
 Greenhouse effect, 257
 Grizzly bear (*Ursus arctos horribilis*), 91, 95
 Ground beetle (*Cololeptem carabidae*), effects of clear-cutting on, 551–559
 Growth rates, of cross-fostered vs. captive-reared killdeer, 164
 Guadalupe Island Storm Petrel (*Pterodroma macrodactyla*), 393
 Guatemala, nontimber forest product extraction systems, 39–50
 Gunung Palung National Park, Indonesia, land-use spectrum, 49
Gymnogyps californianus (California Condor), 392
Gymnogyps californianus (California condor), geographic analysis of sightings, 148–158
- Habitat
 area, cougar population persistence and, 101–102
 corridors. *See* Corridor(s)
 of cross-fostered vs. captive-reared killdeer, 164

- managed, mammalian impact on, 928-932
 primate, 109-119
 productivity, spatial variation in, 475-476
 protection, in dynamic ecosystems, 538-540
 quality, temporal variation and, 474-475
- Habitat fragmentation, 476, 870
 abundance in neotropical migratory birds and, 501-508
 acceleration of forest succession in, 279-287
 Conservation Reserve Program and, 134-136
 Crossbills and, 476
 logging and, 556-558
 migratory forest songbird decline and, 76-83
 Ovenbird reproductive performance and, 618-621
 terrestrial arthropod assemblages and, 800-801
- Habitat preference model, for California Condor, 156-157
- Haematopus ostralegus meadewaldowi* (Canary Islands Black Oystercatcher), 393
- Haliaeetus leucocephalus* (Bald Eagle), 91
- Haplochromine cichlids, 720-727
- Haplochromine cichlids, Nile perch introductions in Lake Victoria and, 687-698
- Harbor porpoises (*Phocoena phocoena*), 189-192
- Hawaii, mammalian nest predators, 316-323
- Hawaiian Petrel (*Pterodroma jugularis*), 393
- Hawksbill turtle (*Eretmochelys imbricata*), 925-927
- Heavy metal concentration, of loggerhead turtle eggs, 840
- Herbaceous understories, clearcutting and, 433-435
- Herbivores, 892
- Hereditary blindness, in captive wolf population, 592-600
- Hibernation, temperature changes, Indiana bat endangerment and, 407-414
- Holocene, presettlement forests and, 892
- Holocene extinctions, 527-531
- Homarus americanus* (American lobster), 394
- Humans
 altitudinal distributions, 421, 422
 attitudes of. *See* Attitudes, human
 diet, invertebrates in, 847
 intertidal mollusc collections, effects of, 378-388
 population control, 1-3
 traffic/activity, wildlife in rain forest and, 623-629
- Hunting, 31
- Huso dauricus* (Kaluga sturgeon), 779
- Huso huso* (beluga or great sturgeon), 778
- Hybridization, of bull trout with brook trout, 857, 860-862
- Hydrodamalis gigas* (Steller's sea cow), 393
- Hymenoxys acaulis* var. *glabra* (Lakeside daisy), 542-548
- Ictalurus punctatus* (channel catfish), 358-359
- Illipe nuts (*Shorea* spp.), 43, 44
- Immigration, cougar population persistence and, 101-102
- Immunological response, body temperature and, 359-360
- Immunosuppression, stress and, 358-359
- Inbreeding, self-incompatibility and, 547
- Indebtedness, deforestation in Latin America and, 140-147
- India, Velavadar National Park, blackbuck predation by wolves, 874-879
- Indiana, cave entrance modifications, bat endangerment and, 407-414
- Indiana bat (*Myotis sodalis*), 407-414
- Indigenous people
 biodiversity and, 253-254
 conservation, modern world and, 251-252
 conservation definition and, 424-428
 environmentalists and, 441
 as natural conservationists, 250-251
 partnerships with, 426
- Individual-territory model, 951
- Indonesia. *See also* Indo-Pacific region
 Gunung Palung National Park, 49, 928-932
 nontimber forest product extraction systems, 39-50
 protected areas, forest cover, biological richness, 65
- Indo-Pacific region
 biodiversity database, 64
 biological richness, 58-61, 65
 conservation planning, 61-62
 conservation potential/threat index, 53-63
- deforestation rates, 56
 forest cover, 56, 61, 65
 protected areas, 56, 57-58, 65
 reserve size, 61-62
- Indus dolphin (*Platanista minor*), 793
- Inheritance, mode of, 594-595
- Inia geoffrensis* (Amazon river dolphin), 792-793
- International Dolphin Conservation Act of 1992, 792
- International support, for National Park System in Costa Rica, 241
- International Union for Conservation of Nature and Natural Resources (IUCN), 92
- Inventory
 of arthropods, 799
 defined, 797-798
 strategies, 799-800
 terrestrial arthropod indicators for, 798-799
- Invertebrates
 in biodiversity inventories, 563-567
 ecological value of, 846-848
 perceptions of, 848-851
- Inviolate sanctuary, 31
- Ironwood (*Eusideroxylon zwageri*), 43
- IUCN (International Union for Conservation of Nature and Natural Resources), 92
- Jamaican Diablotin (*Pterodroma basitata caribbea*), 393
- Japan
 bluefin tuna fishing and, 230-232
 tortoiseshell imports, 925
- Kaluga sturgeon (*Huso dauricus*), 779
- Kenya
 Africa, elephant ownership and, 943-944
 primate conservation in, 109-119
- Keystone species, 846
- Killdeer (*Capreolus vociferus*), 160-167
- Killer whales (*Orcinus orca*), 440
- Kirkland's Warbler (*Dendroica kirklandii*), 948
- Knowledge
 human, about animals, variation in, 931-932
 public, of invertebrates, 849-851
- Korean Crested Shelduck (*Tadorna cristata*), 393
- Labrador Duck (*Camptorhynchus labradorius*), 393
- Lagenorhynchus obscurus* (Dusky dolphin), 792
- Lake Kayanja, Nile perch predation in, 701-710
- Lake Kayugi, Nile perch predation in, 701-710
- Lake Malawai
 cichlid fish fauna of, 712-717
 conservation considerations for, 641
 fish fauna of, 637
 intralacustrine diversification, fish communities and, 638-639
 limnology of, 644-653
 vulnerability of fish fauna, 639-640
- Lake Manywa, Nile perch predation in, 701-710
- Lake Nabugabo, Nile perch predation in, 701-710
- Lakeside daisy (*Hymenoxys acaulis* var. *glabra*), 542-548
- Lake sturgeon (*Acipenser fulvescens*), 780
- Lake Tanganyika
 conservation approaches, 641, 680-682
 fish fauna of, 635-637
 intralacustrine diversification, fish communities and, 638-639
 limnology of, 644-653
 littoral fish communities in, 647-665, 679
 man-make changes, 680
 sediment pollution, biodiversity and, 667-675
 speciation mechanisms, 639
 underwater parks, conservation strategies for, 682-684
 vulnerability of fish fauna, 639-640
- Lake Victoria

- cichlid fishes of, 719–727
 conservation considerations for, 640–641
 fish fauna of, 637–638
 intralacustrine diversification, fish communities and, 638–639
 limnology of, 644–653
 Nile perch introductions, 686–698
 vulnerability of fish fauna, 639–640
- Lamprologus*, 659–665
- Landfills, inactive, reforestation on, 271–276
- Landscape fragmentation. *See* Habitat fragmentation
- Land-use patterns, changes, vertebrate responses to, 866–871
- Lates* (spp.) (Nile perch), 679–681
- Latin America
 aquatic mammal conservation in, 788–793
 debt-for-nature swaps, 145–146
 deforestation, foreign debt and, 140–147
- Least Flycatcher (*Empidonax minimus*), 869–870
- Legislation, 247. *See also* specific legislation
 endangered species, 206–207
 environmental, 242
 for field experimentation, 448–469
 on wildlife ownership, 944
- Leptonycteris curasoae* (long-nosed bat), 457
- Lepus americanus* (Showshoe hare), 892
- Lianas, 690–670. *See also* specific species
- Limnology, of African Great Lakes, 644–653
- Limpet (*Lottia alveus*), 393
- LINKAGES, 894
- Liriodendron tulipifera* (yellow poplar), 434
- Litsea* (spp.) (medang), 43
- Litter size, of cougars, 96
- Livestock
 breeds, 815–824
 exclosures, 731–733
 grazing, 31, 32, 371–376, 732
- Local variation, in habitat productivity, 475–476
- Loggerhead turtles (*Caretta caretta*), 834–841
- Logging, 47. *See also* Clearcutting
 of conifers, Crossbills and, 473–477
 reduced-impact, 755–756
 tension with conservation, 440
- Longevity estimates, for cougars, 97
- Long-lived organisms, conservation of, 826–832
- Long-nosed bat (*Leptonycteris curasoae*), 457
- Lottia alveus* (limpet), 393
- Loxia curvirostra* (Red Crossbill), 473–477
- Loxoides bailleui* (Palila), 316–323
- Loxodonta africana* (African elephant)
 poaching, law enforcement and, 611–626
 population viability analysis, 602–609
- Magnolia Warbler (*Dendroica magnolia*), 869–870
- Maine, Gulf of, Harbor porpoises in, 189–192
- Malaysia. *See also* Indo-Pacific region
 protected areas, forest cover, biological richness, 65
- Mammals. *See also* specific mammals
 altitudinal distributions, 421, 422
 aquatic, in Latin America, 788–793
 boreal, discontinuous distributions of, 527–531
 neotropical forest, rarity classification of, 586–591
 nest predators, of Hawaiian forest birds, 316–323
 species communities, global warming and, 265
 species richness, in Africa, 903–907
 use of buffer zone agroforestry system, 928–932
- Manikara zapota* (chicle), 40–43, 46
- Mapimí Biosphere Reserve, Mexico
 Bolson de Mapimí, 399–400
 potential areas of conflict, 402–404
 social perceptions, 400–402
- Marginalization, debt-induced, 143–144
- Marine species, recently extinct, biogeography of, 391–395
- Marmota flaviventris* (Yellowbellied marmot), 529–530
- Marsupials, in corridors, 627–629
- Masting season, 43
- Mauritus Kestrel (*Falco punctatus*), 169–175
- Maximum sustainable cut (MSC), 24
- Maximum sustainable use (MSU), 24
- Maximum sustainable yield (MSY), 24
- Mbaracayú (*Sorocea bonplandii*), 69–71
- mtDNA analysis, of loggerhead turtles, 835–841
- Medang (*Litsea* (spp.)), 43
- Media, education of constituency and, 752–753
- Mediterranean sea, loggerhead turtle population structure, 834–841
- Mega-diversity country approach, 54
 Menominee Reservation, Michigan, 894–895
- Mergus australis* (Auckland Islands Merganser), 393
- Mesquite (*Prosopis juliflora*), 874–875
- Metapopulation dynamics, 414
- Mexico, Mapimí Biosphere Reserve, 398–405
- Migration, midcontinental, of shorebirds, 533–541
- Migratory Bird Act conservation account, 31
- Migratory Bird Conservation Act of 1929, 31
- Migratory Bird Treaty Act, 31, 32
- Migratory passerines, land-use changes and, 869–870
- Migratory status, insectivorous songbird decline and, 76–83
- Millepora* (spp.), 393
- Minimum habitat areas, for cougar, 94–106
- Mitochondrial DNA, of bull trout, 859
- Mobile-link species, 801
- Mollusc populations, intertidal, human collecting and, 378–388
- Molothrus ater* (Brown-Headed Cowbirds), 309–314
- Monachus tropicalis* (Caribbean monk seal), 393, 792
- Monitoring
 arthropod indicator assemblages, 800–802
 defined, 797–798
 strategy, 802–803
 terrestrial arthropod indicators for, 798–799
 Thomas Strategy and, 952
- Montana, reintroduction of black-footed ferrets in, 569–579
- Moralistic attitudes, 465
- Mosquitofish (*Gambusia holbrooki*), 194–198
- Mosses, species estimates and, 564–567
- Mountain goats (*Oreamnos americanus*), 916–919, 954–956
- Mountain lion. *See* Cougar (*Felis concolor*)
- Mountain yellow-legged frog (*Rana muscosa*), 882–888
- Mount Graham red squirrel (*Tamiasciurus hudsonicus grabamensis*), 88
- MSC (maximum sustainable cut), 24
- MSU (maximum sustainable use), 24
- MSY (maximum sustainable yield), 24
- Multiscale ecological models, climatic models and, 256–267
- Mustela macrondon* (American sea mink), 393
- Mustela nigripes* (black-footed ferrets), 569–579
- Mutualistic interactions, 457–458
- Myotis sodalis* (Indiana bat), 407–414
- Myrica cerifera*, seed dispersal by birds, 279–286
- Nashville Warbler (*Vermivora ruficapilla*), 869–870, 871
- Natal homing, vs. social facilitation, 834
- National Environmental Policy Act, 34
- National forests, 244
- Natural forests, private natural, 244
- Natural recruitment, on inactive landfill, 273–274
- Neotoma cinerea* (bushy-tailed woodrat), 529–530
- Nepal, altitudinal distributions in, 420–423
- Nerita atramentosa*, 381–388
- Nesting populations, of loggerhead turtles, 835–841
- New England
 historic vertebrate abundance, 870–871
 land-use changes, vertebrate response, 866–871
- New England cottontail (*Sylvilagus transitionalis*), 867–869
- New York, Fresh Kills Landfill, 271–276
- Nile perch (*Lates*) (spp.), 686–698, 701–710
- Nocturnal species, human traffic/activity and, 623–629
- Nongovernment organization (NGO), debt-for-nature swaps, 145–146
- Nontimber forest product extraction systems, 39–50
 ecological factors, 41–45

- political factors, 45–48
 socioeconomic factors, 45–48
 Nontimber forest products, temporal availability, 42–44
 North American Breeding Bird Survey, 76–86
 Northern Spotted Owl (*Strix occidentalis caurina*), 489–491, 493–497, 950–953
 Nutrient transfers, invertebrates and, 846
 Nuttall's cottontail (*Sylvilagus nuttallii*), 529–530
 Nuttall's White-Crowned Sparrow (*Zonotrichia leucophrys nuttallii*), 309–314
Nyssa aquatica (water tupelo), 179
- Observations, of animals in the field, 466–467
 Oceanic communities, global taxonomic diversity, 761
Odocoileus virginianus (white-tailed deer), 889–898
 OGENES gene-drop pedigree analysis, 292–293, 299
 Oil pollution, in Lake Tanganyika, 641, 680
 Old-growth forests, 454
 hemlock simulation, 895–896
 Northern Spotted Owl controversy and, 489–491, 944–948, 950–951
 Olympic National Park, mountain goat controversy, 916–919, 954–956
Oncorhynchus keta (chum salmon), 345, 349
Oncorhynchus kisutch (Coho salmon), 345, 348
Orcinus orca (killer whales), 440
Orconectes virilis (crayfish), 184–187
Oreamnos americanus (mountain goats), 916–919, 954–956
 Ostracodes, species richness patterns, Lake Tanganyika, 671–675
 Ovenbird (*Seiurus aurocapillus*), 618–621
 Overabundance, 946–948
Ovis canadensis canadensis (bighorn sheep), 908–914
- Pacific Northwest
 old-growth reserves, 204
 topology of extinction/ endangerment of native fishes, 342–352
 Paddlefish (*Polyodon spatula*), 780–781
 Palila (*Loxioides bailleui*), 316–323
 Parabel (*Actinostemon concolor*), 69–71
 Paraguay, conservation site selection in, 66–75
 Parasitism, cowbird, 309–314
 Parks. See *specific country: specific park*
 Peeling method, 595
 Pelagic oceanic habitat, biodiversity of, 690, 761–765
 Penalties, for illegal exploitation, detection and, 615–616
 Penetrance, of recessive blindness allele, 596–599
 Perceptions, of invertebrates, 848–851
 Peregrine Falcon (*Falco peregrinus*), 91
Perissodus microlepis, 663–664
Perissodus straelani, 663–664
 Persian sturgeon (*Acipenser persicus*), 778–779
 Persistence, Lakeside daisy and, 546–546
 Peru, cetacean fishery in, 792
 Pesticide monitoring, 802
 Pesticides, chlorinated-hydrocarbon, 413
 pH, lethal, 359
Phalacrocorax perspicillatus (Spectacled Cormorant), 393
 Pharmaceutical value, of invertebrates, 847
 Philippines. See *also* Indo-Pacific region
 protected areas, forest cover, biological richness, 65
Phocoena phocoena (harbor porpoises), 189–192
Phocoena sinus (vaquita), 489–497, 790–791
 Physical infrastructure, extractive systems and, 45–46
 Phytoplankton, carbon fixation, 762
Picoides borealis (Red-Cockaded Woodpecker)
 climatic change and, 262–263
 effective population size, 302–308
 gene-drop pedigree analysis, 292–293
 population monitoring, 290–292
 population viability analysis, 292–300
Pimenta dioica (allspice), 40–43
Pinguinus impennis (Great Auk), 393
 Piping Plover (*Charadrius melodus*), 89, 166, 581–584
 Piscicides
 alternative management options, 339–340
 genetic variation in Virgin River chubs and, 336–339
 for red shiner eradication, 335–336
- Plants
 animal-climate linkages, 262–263
 taxonomic research, 809–814
Platanista minor (Indus dolphin), 793
 Poaching
 of black rhinos in Africa, 920
 wildlife law enforcement and, 611–626
 Point bars, 178–179
 Politics
 extractive systems and, 47–48
 nontimber forest product extraction systems and, 45–48
 science and, 752
 Pollination, invertebrates and, 846, 847
 Pollution, in Lake Tanganyika, 680
 Polychaetes, RTUs, species estimates and, 564–567
 Population growth, 247
 genetic variability and, 194–198
 Population recovery time, estimates, for Piping Plover, 584
 Population size
 genetic variability and, 194–198
 Lakeside daisy and, 546–546
 Population viability analysis
 of African elephant, 602–609
 of plants, 92
 of Red-Cockaded Woodpecker, 293–300
 Thomas Strategy, 950–951
Populus deltoides (cottonwood), 178
 Poverty, environment and, 144
 Prairie dogs (*Cynomys ludovicianus*), 375, 572–579
 Prawn (*Caridina nilotica*), 687–698
 Predation
 on blackbucks, by wolves, 874–879
 human collecting effects, in intertidal mollusc populations, 378–388
 vulnerability, migratory forest songbird decline and, 76–83
 Prey composition, of wolves' diet, 876–879
 Prickly ash (*Zanthoxylum thomsonianum*), 89
 Primate conservation, in Tana River National Primate Reserve, Kenya, 109–119
 Product demand, extractive systems and, 46
Prosopis juliflora (mesquite), 874–875
 Protected areas, in Indo-Pacific region, 56, 57–58, 65
Psephurus gladius (Chinese paddlefish), 779
 Pseudocarcin species, 764
Pseudoscaphirhynchus (spp.), 774–777
Pseudoscaphirhynchus kaufmanni, 774, 776–777, 780
Pterodroma basitarsis caribbea (Jamaican Diablotin), 393
Pterodroma jugularis (Hawaiian Petrel), 393
Pterodroma macrodactyla (Guadalupe Island Storm Petrel), 393
- Quail (*Coturnix coturnix*), 317, 319
- Rain forest, effect of human traffic/activity on wildlife, 623–629
Rana muscosa (mountain yellow-legged frog), 882–888
Rana pipiens (frogs), 358
 Rarity classification, in neotropical forest mammals, 586–591
 Rattan (*Calamus* (spp.)), 43
Rattus rattus (black rats), 316–323
 Recognizable taxonomic units (RTUs), 562–567
 Red-Cockaded Woodpecker (*Picoides borealis*)
 climatic change and, 262–263
 effective population size, 302–308
 gene-drop pedigree analysis, 292–293
 population monitoring, 290–292
 population viability analysis, 292–300
 Red colobus (*Colobus badius rufomitratus*), 109–119
 Red Crossbill (*Loxia curvirostra*), 473–477
 "Red-leg" disease, boreal toad disappearance and, 356–360
 Red shiners (*Cyprinella lutrensis*), 334–336
 Reforestation, 133
 on closed landfill, 271–276
 commercial, encouragement of, 244

- Refuge Administration Act of 1966, 34
 Refuge Recreation Act of 1962, 30–31, 34
 Regulations, for field experimentation, 468–469
 Reintroduction
 of black-footed ferrets, 569–579
 Equus przewalskii (Asian wild horse), 13–15
 strategies, 194–198
 Relative diversity, in vegetative analysis, 69
 Relative dominance, in vegetative analysis, 69
 Relative frequency, in vegetative analysis, 69
 Remote operated vehicle dives, for evaluation of chlid fish fauna in Lake Victoria, 720–727
 Removal effects, on source herds of bighorn sheep, 908–914
 Reproductive failure, in Lakeside daisy, 542–548
 Reproductive fitness, equalization of family sizes and, 122–130
 Reproductive success, of cross-fostered vs. captive-reared killdeer, 163–164
 Reptiles, immunosuppression in, 359
 Reserve size, in Indo-Pacific region, 61–62
Res nullius doctrine, 944
 Resource tenure, extractive systems and, 45
 Restoration program(s). *See also* Reforestation on inactive landfill, 271–276
 Rhino poaching, enforcement of wildlife laws and, 611–616
 Rocky Mountain National Park, removal effects on source herds of bighorn sheep, 908–914
 Roseate Tern (*Sterna dougallii*), 89
 Rotenone
 alternative management options, 339–340
 genetic variation in Virgin River chubs and, 336–339
 for red shiner eradication, 335–336
 RTUs (recognizable taxonomic units), 562–567
 Ruby Lake Case, 34–35
 Running buffalo clover (*Trifolium stoloniferum*), 89
 Russian sturgeon (*Acipenser pueldensiedtii*), 778

 Sakhalin sturgeon (*Acipenser medirostris*), 777
Salix nigra (black willow), 178, 179
 S-allele maintenance, Lakeside daisy and, 546–546
Salmo trutta (brown trout), 359
Salvelinus confluentus (bull trout), 856–863
 Sanctuary concept, 30, 31
 Scandinavian zoo wolf conservation project, 593–594
Scaphirhynchus (spp.), 780
 Scatter diagram, of species number by area, 902, 903
 Scientific value, of invertebrates, 847–848
 Scientific value systems, 465
 Sea otter (*Enhydra lutris*), 393, 793
 Sediment pollution, biodiversity in Lake Tanganyika and, 667–675
 Seed dispersal
 by birds, acceleration of ecological succession and, 279–287
 invertebrates and, 846
Seiurus aurocapillus (Ovenbird), 618–621
 Self-incompatibility
 of Lakeside daisy, 543–548
 systems, 543
 Sequoia and Kings Canyon National Parks, California, 882–888
Setophaga ruticilla (American Redstart), 869–870
 Sexual maturity, and survivorship for Blanding's turtles, 827–832
 Shelf-break boundary, pelagic Ocean biodiversity and, 767–768
 Ship sturgeon (*Acipenser nudiiventris*), 777
Shorea (spp.) (illipe nuts), 43, 44
 Shorebirds
 classification by migration distance, 534–535
 midcontinental migrations, 533–541
 Shortnose sturgeon (*Acipenser oxyrinchus*), 780
 Siberian sturgeon (*Acipenser baeri*), 777–778
 Silver maple (*Acer saccharinum*), 178
 Simulation model(s)
 of African elephant population viability, 603–609
 of coarse woody debris substrate, for hemlock regeneration, 896–897
 for cougar population dynamics, 95–106
 demographic, for Piping Plover population, 581–584
 of forest-interior bird population, 325–332
 of old-growth hemlock, 895–896
 stochastic variation, 98–99
 Sink populations, of Ovenbirds, 620–621
 SIV (Species Importance Value), 69
 Snowshoe hare (*Lepus americanus*), 892
 Social facilitation, vs. natal homing, 835
 Social infrastructure, extractive systems and, 45–46
 Social surveys, in Lake Tanganyika, 684
 Society for Conservation Biology, public affairs programs, funding campaign, 4
 Socio-buffering, 928
 Socioeconomic factors, nontimer forest product extraction systems, 45–49
 Socioeconomic sustainable activities, 25
 Sociology, of reintroductions, 570–571
 Soil invertebrates, 847
Sorocea bonplandii (Mbaracayú; Tarumá), 69–71
 South Carolina, Savannah River Site, Red-Cockaded Woodpecker population of, 289–300
 Southeastern coastal plain, United States, 176–181
 Southern Appalachian salamanders, timber harvesting and, 363–369
 Southern bluefin tuna (*Thunnus maccoyii*), 229
 Southern Mesoamerican Biological Corridor, 243–244
 Spatial distribution, of population abundance, 502–503
 Spatial models, threshold effects and, 951
 Spatial variation, in habitat productivity, 475–476
 Species accumulation functions, for species richness prediction, 480–487
 Species Importance Value (SIV), 69
 Species richness
 in African birds, 901–907
 altitudinal distributions and, 420–423
 assessment, for CPTI, 55
 estimates of field samples, biodiversity assessments and, 562–567
 of flowering African plants, 903–907
 of herbaceous understories, clearcutting and, 434–435
 herb understory recovery after deforestation and, 436–438
 in Indo-Pacific region, 58–61, 65
 in Lake Tanganyika, sediment pollution and, 671–675
 of mammals, in Africa, 903–907
 prediction, by species accumulation functions, 480–487
 of salamanders, timber harvesting and, 363–369
 in vegetative analysis, 70
 Spectacled Cormorant (*Phalacrocorax perspicillatus*), 393
Spermophilus lateralis (Golden-mantled ground squirrel), 529–530
 Spiders, RTUs, species estimates and, 564–567
 Spinner dolphin (*Stenella longirostris*), 791–792
 Sporophytic self-incompatibility systems, 543
 Spotted dolphin (*Stenella attenuata*), 791–792
 Spotted Sandpipers (*Actitis macularia*), 160–167
 Statistical power, in probability of accepting false null hypothesis, 489–500
 Stellate sturgeon (*Acipenser stellatus*), 778
 Steller's sea cow (*Hydrodamalis gigas*), 393
Stenella attenuata (Spotted dolphin), 791–792
Stenella longirostris orientalis (eastern spinner dolphin), 791
Stenella longirostris (Spinner dolphin), 791–792
 Sterlet (*Acipenser ruthenus*), 777
Sterna dougallii (Roseate Tern), 89
 Stochastic variation, in simulation models, 98–99
Stolobissa, 680
 Stream presence, salamander abundance and, 365–366
 Stress
 immunosuppression and, 358–359
 sublethal, 358–359
Strix occidentalis caurina (Northern Spotted Owl), 489–491, 493–497, 950–953
 Survival rates
 for Blanding's turtles, 827–832
 for cougars, 96–97
 of cross-fostered vs. captive-reared killdeer, 163–164
 density-dependence in, 98
 in simulating interior bird population for forest management, 325–332
 Sustainability
 Caring for the Earth, 20–26, 938–942
 ecological activities, 24–25
 ecological socioeconomic activities, 25–26

- ecosystem, nontimber forest products, 44–45
 myth of, 440–442
 socioeconomic activities, 25
Sylvilagus floridanus (eastern cottontail), 868
Sylvilagus nuttallii (Nuttall's cottontail), 529–530
Sylvilagus transitionalis (New England cottontail), 867–869
- Tadorna cristata* (Korean Crested Shelduck), 393
Tamiasciurus bairdianus (Mount Graham red squirrel), 88
 Tana River National Primate Reserve, Kenya, primate conservation, 109–119
 Target taxon analysis, 800
 Tarumá (*Sorocea bonplandii*), 69–71
Taxodium distichum (bald cypress), 179, 180
 Taxonomic research, plants, 809–814
 Taylor Grazing Act of 1934, 32
 Temperature
 ambient, basal metabolic rate of birds and, 264–265
 of cave entrance, Indiana bat endangerment and, 407–414
 Temporal patterns
 of condor distribution, 153–155
 habitat quality and, 474–475
 in nontimber forest product availability, 42–44
 Territory-cluster model, 951
 Thomas Strategy, 950–953
 Threshold effects, spatial models and, 951
Thunnus thynnus (bluefin tuna), 229–233
 Timber exports, promotion, 143, 144
 Timber harvesting, Southern Appalachian salamanders and, 363–369
 Totoaba fishing, incidental vaquita mortality and, 790–791
 Trade bans, 616
 Translocation, of mountain goats, 916–919
Trifolium stoloniferum (running buffalo clover), 89
 Tropical forests, ecologically sustainable use, 24–25
 Tsitka river, Canada, 440, 441
 Tuna fishing, dolphins and, 791–792
Turbo undulatus, 381–388
- United Nations, 246
 United States, Great Basin Mountains, missing mammals on, 527–531
 United States Endangered Species List
 analysis, 87–93
 listing process, 88
 United States Fish and Wildlife Service Reports, 35–36
 United States National Wildlife Refuge System, evolution, 31–36
 United States Tuna-dolphin regulations, 791
 Universities
 ecological education and, 753–754
 land sale decisions, 454–456
 plant taxonomy infrastructure, 810–814
Ursus arctos horribilis (grizzly bear), 91, 95
 Utilitarian modes, 465
- Vaquita (*Phocoena sinus*), 489–497, 790–791
 Vegetation
 analysis, for conservation site selection, 66–75
 patterns, in southeastern coastal plain, 176–181
 Velavadar National Park, India, blackbuck predation by wolves, 874–879
Vermivora chrysoptera (Golden-Winged Warbler), 869–870
Vermivora pinus (Blue-Winged Warblers), 870
Vermivora ruficapilla (Nashville Warbler), 869–870, 871
 Vervet monkeys (*Cercopithecus aethiops*), 626
 Virgin River chubs (*Gila seminuda*)
 management options/implications, 339–340
 post-perturbation genetic changes in, 334–339
 VORTEX population viability analysis, of Red-Cockaded Woodpecker, 293–300
- Water levels, shorebird migration and, 536
 Water tupelo (*Nyssa aquatica*), 179
 Western United States, public rangelands, federal livestock enclosures, 731–733
 Wetland protection legislation, 31
 Whale watches, 440
 White pine (*Pinus strobus*) 892–893
 White rhinos (*Ceratotherium simum*), 920
 White-tailed deer (*Odocoileus virginianus*), 889–898
 Wildlife corridors. See Corridor(s)
 Wildlife habitat, Conservation Reserve Program and, 136–137
 Wildlife law enforcement, 611–626
 Wildlife ownership, 943–944
 Wildlife protection, in public interest, 30
 Wildlife tourism, 440
Wilsonia canadensis (Canada Warbler), 867–870
 Wilson's Warbler (*Wilsonia pusilla*), 867–870
 Winter-active bats, 413
 Winter habitat, temperature changes, Indiana bat endangerment and, 407–414
 Wisconsin, forest characteristics, 134–135
 Wolf (*Canis lupus*), 91, 948
 captive, hereditary blindness in, 592–600
 pedigree, 594
 World Conservation Strategy, 20–21
- Xate (*Chamaedorea* spp.), extraction, 40, 41
- Yangtze sturgeon (*Acipenser dabryanus*), 779
 Yellowbelly marmot (*Marmota flaviventris*), 529–530
 Yellowfin tuna, 791–792
 Yellow poplar (*Liriodendron tulipifera*), 434
 Yosemite toad (*Bufo canorus*), 883
- Zambia, Africa, wildlife law enforcement and, 611–626
Zanthoxylum thomsonianum (prickly ash), 89
 Zimbabwe, Africa, elephant ownership and, 943–944
Zonotrichia leucophrys nuttalli (Nuttall's White-Crowned Sparrow), 309–314
Zostera (eelgrass), 393



Author Index, Volume 7, 1993

- Alcorn, J.B. Indigenous Peoples and conservation, 424-426
 Allard, D.J.
 Biodiversity of the Southeastern United States (book reviews), 963-965
 The Southeastern United States: Land of Biodiversity (book review), 964-965
 Allen, D.M. See Haig, S.M.
 Allendorf, F.W. See Leary, R.F.
 Delay of Adaptation to Captive Breeding by Equalizing Family Size, 416-419
 Amarasekare, P. Potential Impact of Mammalian Nest Predators on Endemic Forest Birds of Western Mauna Kea, Hawaii, 316-324
 Angel, M.V. Biodiversity of the Pelagic Ocean, 760-772
 Anunsen, C.S., Anunsen, R. Response to Scheffer, 954-957
 Armbruster, P., Lande, R. A Population Viability Analysis for African Elephant (*Loxodonta africana*): How Big Should Reserves Be?, 602-610
 Avise, J.C. See Bowen, B.W.
- Baptista, L.F. See Trail, P.W.
 Brattie, A.J. See Oliver, I.
 Bednarz, J.C. See Perneluzi, P.
 Beier, P. Determining Minimum Habitat Areas and Habitat Corridors for Cougars, 94-108
 Belthoff, J.R. See Haig, S.M.
 Benkman, C.W. Logging, Conifers, and the Conservation of Crossbills, 473-479
 Berger, J. Letter to the Editor, 219-220
 Berger, J., Cunningham, C., Bawusab, A.A. Lindeque, M. "Costs" and Short-Term Survivorship of Hornless Black Rhinos, 920-924
 Bills, R. See Cohen, A.S.
 Birstein, V.J. Sturgeons and Paddlefishes: Threatened Fishes in Need of Conservation, 773-787
 Bisack, K.D. See Read, A.J.
 Bissell, S.J. Feminists, Luddites, and Full-Contact Philosophy (book review), 738-739
 Bjorndal, K.A., Bolten, A.B., Langueux, C.J. Decline of the Nesting Population of Hawksbill Turtles at Torsupucero, Costa Rica, 925-927
 Blake, G. Letter to the Editor, 5-6
 Blumstein, D.J. Letter to the Editor, 223-224
 Bock, C.E., Bock, J.H. Cover of Perennial Grasses in Southeastern Arizona in Relation to Livestock Grazing, 371-377
 Bock, C.E., Bock, J.H., Smith, H.M. Diversity, 731-733
 Bock, J.H. See Bock, C.E.
 Böhning-Gaese, K., Taper, M.L., Brown, J.H. Are Declines in North American Insectivorous Songbirds Due to Causes on the Breeding Range?, 76-96
 Bolten, A.B. See Bjorndal, K.A.
 Bootsma, H.A., Hecky, R.E. Conservation of the African Great Lakes: A Limnological Perspective, 644-656
 Borlase, S.C., Loebel, D.A., Frankham, R., Nurthen, R.K., Briscoe, D.A., Daggard, G.E. Modeling Problems in Conservation Genetics Using Captive *Drosophila* Populations: Consequences of Equalization of Family Sizes, 122-131
 Bowen, B.W., Avise, J.C., Richardson, J.I., Meylan, A.B., Margaritoulis, D., Hopkins-Murphy, S.R. Population Structure of Loggerhead Turtles (*Caretta caretta*) in Northwestern Atlantic Ocean and Mediterranean Sea, 834-844
 Boza, M.A. Conservation in Action: Past, Present, and Future of the National Park System in Costa Rica, 239-247
 Brack, V., Jr. See Richter, A.R.
 Bradford, D.E., Tabatabai, F., Grabar, D.M. Isolation of Remaining Populations of the Native Frog, *Rana mucosa*, by Introduced Fishes in Sequoia and Kings Canyon National Parks, California, 882-888
 Briscoe, D.A. See Borlase, S.C.
 Brown, J.H. See Böhning-Gaese, K.
 Brussard, P.F. News of the Society, 450, 746
- Cade, T.J., Jones, C.G. Progress in Restoration of the Mauritius Kestrel, 169-175
 Caljon, A.G. See Cohen, A.S.
- Carey, C. Hypothesis Concerning the Causes of the Disappearance of Boreal Toads From the Mountains of Colorado, 355-362
 Caughley, G. Elephants and Economics, 943-945
 Cherfas, J. Letter to the Editor, 6
 Cleary, R.L. Letter to the Editor, 223
 Cocquyt, C.Z. See Cohen, A.S.
 Cogan, C.B. See Stoms, D.M.
 Cohen, A.S. See Kaufman, L.
 Cohen, A.S., Bills, R., Cocquyt, C.Z., Caljon, A.B. The Impact of Sediment Pollution on Biodiversity in Lake Tanganyika, 667-677
 Collins, N.C. See France, R.L.
 Colwell, R.K. See Kremen, C.
 Congdon, J.D., Dunham, A.E., Van Loben Sels, R.C. Delayed Sexual Maturity and Demographics of Blanding's Turtles (*Emydoidea blandingii*): Implications for Conservation and Management of Long-Lived Organisms, 826-833
 Cope, J.B. See Richter, A.R.
 Coulter, B.W., Mubamba, R. Conservation in Lake Tanganyika, with Special Reference to Underwater Parks, 678-685
 Cunningham, C. See Berger, J.
 Curtin, C.B. The Evolution of the U.S. National Wildlife Refuge System and the Doctrine of Compatibility, 29-38
 Cuthbert, F.J. See Powell, A.N.
- Daggard, G.E. See Borlase, S.C.
 Daly, H.E. Beginning Again on Purpose (book review), 736-738
 Davis, F.W. See Stoms, D.M.
 Demarais, B.D., Dowling, T.E., Minckley, W.L. Post-perturbation Genetic Changes in Populations of Endangered Virgin River Chubs, 334-341
 Demauro, M.M. Relationship of Breeding System to Rarity in the Lakeside Daisy (*Hymenoxys acaulis* var. *glabra*), 542-550
 Diego-Gomacutoz, L. Perspectives on Mexican Biodiversity (book review), 967-968
 Dinerstein, E., Wikramanayake, E.D. Beyond "Hotspots": How to Prioritize Investments to Conserve Biodiversity in the Indo-Pacific Region, 53-65
 Doak, D. See Harrison, S.
 Dobson, F.S., Jinping, Y. Rarity in Neotropical Forest Mammals Revisited, 586-591
 Dowling, T.E. See Demarais, B.D.
 Dudley, J.P. Jay Norwood "Ding" Darling: A Retrospective, 200-203
 Duffus, D. Diversity, 440-442
 Duffy, D.C.
 Letter to the Editor, 221-223
 Seeing the Forest for the Trees: Response to Johnson et al, 436-439
 Dugelby, B.L. See Salafsky, N.
 Duncan, B.W. See Stoms, D.M.
 Dunham, A.E. See Congdon, J.D.
 Dunn, C.P., Stearns, F., Guntenspergen, B.R., Sharpe, D.M. Ecological Benefits of the Conservation Reserve Program, 132-139
- Ehrenfeld, D. See Meffe, G.K. The Making of *Conservation Biology* (editorial), 743-745
 Ehrlich, A.H. See Meffe, G.K.
 Eldridge, M.E. See Petranksa, J.W.
 Elliott, K.J., Loftis, D.L. Letter to the Editor, 220-221
 Emigh, T.E. See Reed, J.M.
 Erwin, T.L. See Kremen, C.
 Etchberger, R.C. See Krausman, P.R.
- Farnsworth, E.J., Rosovsky, J. The Ethics of Ecological Field Experimentation, 463-472
 Fleming, T. See Nabhan, G.P.
 Forbes, S.H. See Leary, R.F.
 Ford, W.M. See Johnson, A.S.

- France, R.L., Collins, N.C. Extirpation of Crayfish in a Lake Affected by Long-Range Anthropogenic Acidification, 184-188
- Frankham, R. See Borlase, S.C.
- Frissell, C.A. Topology of Extinction and Endangerment of Native Fishes in the Pacific Northwest and California, (U.S.A.), 342-354
- Garrott, R.A., White, P.J., Vanderbilt White, C.A. Overabundance: An Issue for Conservation Biologists?, 946-949
- Gashagaza, M.M. See Hori, M.
- Gawusch, A.A. See Berger, J.
- Gentry, A.H. See Keel, S.
- Gerrodette, T. See Taylor, B.L.
- Gianecchini, J. Ecotourism: New Partners, New Relationships, 429-432
- Godoy, R.
- Non-Timber Forest Products: Where to Go From Here? (book review), 965-966
- Non-timber Forest Products (book review), 210-211
- Goldschmidt, T., Witte, F., Wanink, J. Cascading Effects of the Introduced Nile Perch on the Detritivorous/Phytoplanktivorous Species in the Sublittoral Areas of Lake Victoria, 686-700
- Goodrich, L.J. See Perneluzi, P.
- Goodson, N.J. See Stevens, D.R.
- Graber, D.M. See Bradford, D.F.
- Grayson, D.K., Livingston, S.D. Missing Mammals on Great Basin Mountains: Holocene Extinctions and Inadequate Knowledge, 527-532
- Griffiths, M., Van Schaik, C.P. The Impact of Human Traffic on the Abundance and Activity Periods of Sumatran Rain Forest Wildlife, 623-626
- Gullison, R.E., Losos, E.C. The Role of Foreign Debt in Deforestation in Latin America, 140-147
- Gutenspergen, G.R. See Dunn, C.P.
- Haig, S.M., Beithoff, J.R., Allen, D.H. Population Viability Analysis for a Small Population of Red-Cockaded Woodpeckers and an Evaluation of Enhancement Strategies, 289-301
- Hale, P.E. See Johnson, A.S.
- Haley, K.E. See Petranka, J.W.
- Hall, S.J.G., Ruane, J. Livestock Breeds and Their Conservation: A Global Overview, 815-825
- Handel, S.N. See Robinson, G.R.
- Harrison, S., Stahl, A., Doak, D. Spatial Models and Spotted Owls: Exploring Some Biological Issues Behind Recent Events, 950-953
- Hartshorn, G. Pluralistic Conservation (book review), 211-212
- Hecky, R.E. See Bootsma, M.A.
- Heinen, J.T. Global Perspectives on Biodiversity (book review), 740-741
- Heywood, S.G. See Maurer, B.A.
- Holdgate, M., Munro, D.A. Limits of Caring: A Response, 938-940
- Holt, S. Letter to the Editor, 451-452
- Hoover, J. See Perneluzi, P.
- Hopkins-Murphy, S.R. See Bowen, B.W.
- Hori, M., Gashagaza, M.M., Nshombo, M., Kawanabe, H. Littoral Fish Communities in Lake Tanganyika: Irreplaceable Diversity Supported by Intricate Interactions Among Species, 657-666
- Howald, A.M. See Pavlik, B.M.
- Humphrey, S.R. See Richter, A.R.
- Hunter, M.L. Jr. Biodiversity Goes Public (book review), 208-209
- Hunter, M.L. Jr., Yonzon, P. Altitudinal Distributions of Birds, Mammals, People, Forests, and Parks in Nepal, 420-423
- Jacobson, M. Letter to the Editor, 8-9
- Jain, S. Managing Landscapes for Biodiversity (book review), 966-967
- Jhala, Y.V. Predation on Blackbuck by Wolves in Velavadar National Park, Gujarat, India, 874-881
- Jinping, Y. See Dobson, F.S.
- Johnson, A.S., Ford, W.M., Hale, P.E. The Effects of Clearcutting on Herbaceous Understories are Still Not Fully Known, 433-435
- Johnson, D.H., Schwartz, M.D. The Conservation Reserve Program and Grassland Birds, 934-937
- Jones, C.G. See Cade, T.J.
- Jordan, C.F. Healthy Ecosystems: How Do We Define Them? (book review), 444-445
- Jorge Soberón, M., Jorge Liorente, B. The Use of Species Accumulation Functions for the Prediction of Species Richness, 480-488
- Karr, J.R. Letter to the Editor, 8
- Kaufman, L. The Challenge of the World's Great Lakes (Editorial), 447-449
- Kaufman, L., Cohen, A.S. The Great Lakes of Africa, 632-633
- Kaufman, L., Ochumba, P. Evolutionary and Conservation Biology of Cichlid Fishes as Revealed by Faunal Remnants in Northern Lake Victoria, 719-730
- Kaus, A. Environmental Perceptions and Social Relations in the Mapimi Biosphere Reserve, 398-406
- Kawanabe, M. See Hori, M.
- Keel, S., Gentry, A.H., Spinzi, L. Using Vegetation Analysis to Facilitate the Selection of Conservation Sites in Eastern Paraguay, 66-75
- Kellert, S.R. See Reading, R.P. Values and Perceptions of Invertebrates, 845-855
- Keough, M.J., Quinn, G.P., King, A. Correlations between Human Collecting and Intertidal Mollusc Populations on Rocky Shores, 378-390
- King, A. See Keough, M.J.
- Knopf, F.L. See Skagen, S.K.
- Kraus, S.D. See Read, A.J.
- Krausman, P.R., Etchberger, R.C., Lee, R.M. Letter to the Editor, 219
- Kremen, C., Colwell, R.K., Erwin, T.L., Murphy, D.D., Noss, R.F., Sanjayan, M.A. Terrestrial Arthropod Assemblages: Their Use in Conservation Planning, 796-808
- Lagueux, C.J. See Bjørndal, K.A.
- Laikre, L., Ryman, N., Thompson, E.A. Hereditary Blindness in a Captive Wolf (*Canis lupus*) Population: Frequency Reduction of a Deleterious Allele in Relation to Gene Conservation, 592-601
- Lande, R. See Armbruster, P.
- Langer, D. See Niemelä, J.
- Leader-Williams, N., Milner-Gulland, E.J. Policies for the Enforcement of Wildlife Laws: The Balance Between Detection and Penalties in Luangwa Valley, Zambia, 611-617
- Leary, R.F., Allendorf, F.W., Forbes, S.H. Conservation Genetics of Bull Trout in the Columbia and Klamath River Drainages, 856-865
- Leberg, P.L. Strategies for Population Reintroduction: Effects of Genetic Variability on Population Growth and Size, 194-199
- Lee, R.M. See Krausman, P.R.
- Lindenmeyer, D.B., Nix, H.A. Ecological Principles for the Design of Wildlife Corridors, 627-630
- Lindeque, M. See Berger, J.
- Litvaitis, J.A. Response of Early Successional Vertebrates to Historic Changes in Land Use, 866-873
- Livingston, S.D. See Grayson, D.K.
- Loebel, D.A. See Borlase, S.C.
- Loftis, D.L. See Elliott, K.J.
- Losos, E.C. See Gullison, R.E.
- Lowe-McConnell, R.H. Fish Faunas of the African Great Lakes: Origins, Diversity, and Vulnerability, 634-643
- McClanahan, T.R., Wolfe, R.W. Accelerating Forest Succession in a Fragmented Landscape: The Role of Birds and Perches, 279-288
- McLarny, W.O. Letter to the Editor, 749
- McMillan, M. See Wilcove, D.S.
- Margaritoulis, D. See Bowen, B.W.
- Markandya, A. Options for Economic Development and Prudent Use of Natural Resources (book review), 212-213
- Maurer, B.A., Heywood, S.G. Geographic Range Fragmentation and Abundance in Neotropical Migratory Birds, 501-509
- Mayer, P.M. See Ryan, M.R.
- Medley, K.E. Primate Conservation Along the Tana River, Kenya: An Examination of the Forest Habitat, 109-121
- Meffe, G.K., Ehrlich, A.H., Ehrenfeld, D. Human Population Control: The Missing Agenda (editorial), 1-3
- Meylan, A.B. See Bowen, B.W.
- Milner-Gulland, E.J. See Leader-Williams, N.
- Mincley, W.L. See Demarais, B.D.
- Mlandenoff, D.J., Stearns, F. Eastern Hemlock Regeneration and Deer Browsing

- in the Northern Great Lakes Region: A Re-examination and Model Stimulation, 889-900
- Mubamba, R. See Coulter, G.W.
- Murphy, D.D. See Kremen, C.
- Nabhan, G.P., Fleming, T. The Conservation of New World Mutualisms, 457-459
- Nickrent, D.L. See Pavlik, B.M.
- Niemelä, J., Langor, D., Spence, J.R. Effects of clear-cut harvesting on boreal ground-beetle assemblages (Coleoptera: Carabidae) in western Canada, 551-561
- Nix, M.A. See Lindenmeyer, D.B.
- Norse, E.A. Greater (and Better) Ecosystem Management (book review), 443-444
- Noss, R.F. See Kremen, C. Whither Conservation Biology (editorial), 215-217
- Nshombo, M. See Hori, M.
- Nurthen, R.K. See Borlase, S.C.
- Ochumba, P. See Kaufman, L.
- Ogutu-Ohwayo, R. The Effects of Predation by Nile Perch, *Lates niloticus* L., on the Fish of Lake Nabugabo, with Suggestions for Conservation of Endangered Endemic Cichlids, 701-711
- Oliver, I., Beattie, A.J. A Possible Method for the Rapid Assessment of Biodiversity, 562-568
- Orr, D.W.
- Architecture as Pedagogy, 226-228
- Educating a Constituency for the Long Haul, 752-754
- Forests and Trees, 454-456
- The Problems of Disciplines/The Discipline of Problems, 10-12
- Painho, M.O. See Stoms, D.M.
- Palka, D. See Read, A.J.
- Parnell, J. Plant Taxonomic Research, With Special Reference to the Tropics: Problems and Potential Solutions, 809-814
- Pavlik, A.M., Nickrent, D.L., Howald, A.M. The Recovery of an Endangered Plant. I. Creating a New Population of *Amsinckia Grandiflora*, 510-526
- Perry, D.A. Diversity, 204-205
- Petranka, J.W., Eldridge, M.E., Haley, K.E. Effects of Timber Harvesting on Southern Appalachian Salamanders, 363-370
- Phillips, O. Letter to the Editor, 6-7
- Pinard, M.A. See Putz, F.E.
- Pomeroy, D. Centers of High Biodiversity in Africa, 901-907
- Pomeluzi, P., Bednarz, J.C., Goodrich, L.J., Zawada, N., Hoover, J. Reproductive Performance of Territorial Ovenbirds Occupying Forest Fragments and a Contiguous Forest in Pennsylvania, 618-622
- Powell, A.N., Cuthbert, F.J. Augmenting Small Populations of Plovers: An Assessment of Cross-Fostering and Captive-Rearing, 160-168
- Putz, F.E. Hope for Tropical Forestry and Conservation (book review), 734-736
- Putz, F.E., Pinard, M.A. Reduced-Impact Logging as a Carbon-Offset Method, 755-757
- Quinn, S.P. See Keough, M.J.
- Read, A.J., Kraus, S.D., Bisack, K.D., Palka, D. Harbor Porpoises and Gill Nets in the Gulf of Maine, 189-193
- Reading, R.P., Kellert, S.R. Attitudes Toward a Proposed Reintroduction of Black-Footed Ferrets (*Mustela nigripes*), 569-580
- Redford, K.H., Stearman, A.M.
- On Common Ground? Response to Alcorn, 427-428
- Forest-Dwelling Native Amazonians and the Conservation of Biodiversity: Interests in Common or in Collision?, 248-255
- Reed, J.M., Walters, J.R., Emigh, T.E., Seaman, D.E. Effective Population Size in Red-Cockaded Woodpeckers: Population and Model Differences, 302-308
- Reinthal, P. Evaluating Biodiversity and Conservation Lake Malawi's Cichlid Fish Fauna, 712-718
- Rex, M.A. A Taxonomic Perspective on Biodiversity (book review), 209-210
- Richardson, J.I. See Bowen, B.W.
- Richter, A.R., Humphrey, S.R., Cope, J.B., Brock, U., Jr. Modified Cave Entrances: Thermal Effect on Body Mass and Resulting Decline of Endangered Indiana Bats (*Myotis sodalis*), 407-415
- Robinson, G.R., Handel, S.N. Forest Restoration on a Closed Landfill: Rapid Addition of New Species by Bird Dispersal, 271-278
- Robinson, J.G.
- "Believing What You Know Ain't So": Response to Holdgate and Munro, 941-942
- The Limits of Caring: Sustainable Living and the Loss of Biodiversity, 20-28
- Rodda, G.H. Diversity, 959-960
- Rodríguez, J.P. Letter to the Editor, 223
- Root, B.G. See Ryan, M.R.
- Root, T.L., Schneider, S.H. Can Large-Scale Climatic Models be Linked with Multiscale Ecological Studies?, 256-270
- Rosovsky, J. See Farnsworth, E.J.
- Ruane, J. See Hall, S.J.G.
- Ryan, M.R., Root, B.G., Mayer, P.M. Status of Piping Plovers in the Great Plains of North America: A Demographic Simulation Model, 581-585
- Ryder, O.A. Przewalski's Horse: Prospects for Reintroduction into the Wild, 13-15
- Ryman, N. See Saikre, L.
- Safina, C. Bluefin Tuna in the West Atlantic: Negligent Management and the Making of an Endangered Species, 229-234
- Salafsky, N. Mammalian Use of a Buffer Zone Agroforestry System Bordering Gunung Palung National Park, West Kalimantan, Indonesia, 928-933
- Salafsky, N., Dugelby, B.L., Terborgh, J.W. Can Extractive Reserves Save the Rain Forest? An Ecological and Socioeconomic Comparison of Nontimber Forest Product Extraction Systems in Petén, Guatemala, and West Kalimantan, Indonesia, 39-52
- Sanjayan, M.A. See Kremen, C.
- Scepan, J. See Stoms, D.M.
- Scheffer, V.B.
- The Olympic Goat Controversy: A Perspective, 916-919
- Reply to the Anunsens, 957
- Scheuer, J.H. Biodiversity: Beyond Noah's Ark, 206-207
- Schneider, S.H. See Root, T.L.
- Schwartz, M.D. See Johnson, D.H.
- Scott, J.M. See Stoms, D.M.
- Seaman, D.E. See Reed, J.M.
- Shankman, D. Channel Migration and Vegetation Patterns in the Southeastern Coastal Plain, 176-183
- Sharpe, D.M. See Dunn, C.P.
- Siebert, S.F. Letter to the Editor, 750
- Skagen, S.K., Knopf, F.L. Toward Conservation of Midcontinental Shorebird Migrations, 533-541
- Smith, H.M. See Bock, C.E.
- Spence, J.R. See Niemelä, J.
- Spinzi, L. See Keel, S.
- Stahl, A. See Harrison, S.
- Stearman, A.M. See Redford, K.H.
- Stearns, F. See Dunn, C.P., Mladenoff, D.J.
- Stevens, D.R., Goodson, N.J. Assessing Effects of Removals for Transplanting on a High-Elevation Bighorn Sheep Population, 908-915
- Stevenson, R.D. "Kill Not the Moth or Butterfly for the Last Judgment Draweth Nigh." William Blake (book review), 445-446
- Stinner, B.R. An Ecological Approach to Agriculture (book review), 741-742
- Stoms, D.M., Davis, F.W., Cogan, C.B., Painho, M.O., Duncan, B.W., Scapan, J., Scott, J.M. Geographic Analysis of California Condor Sighting Data, 148-159
- Tabatabai, F. See Bradford, D.F.
- Taper, M.L. See Böhning-Gaese, K.
- Taylor, B.L., Oerrodette, T. The Uses of Statistical Power in Conservation Biology: The Vaquita and Northern Spotted Owl, 489-500
- Temple, S.A.
- A Campaign to Fund SCB's Public Affairs Programs, 4
- Essentials of Conservation Biology (book review), 961-962
- Reed Noss to Edit Conservation Biology, 218
- Terborgh, J.W. See Salafsky, N.
- Thompson, E.A. See Saikre, L.
- Thompson, F.R. III. Simulated Responses of a Forest-Interior Bird Population to

- Forest Management Options in Central Hardwood Forests of the United States, 325-333
- Trail, P.W., Baptista, L.F. The Impact of Brown-Headed Cowbird Parasitism on Populations of the Nuttall's White-Crowned Sparrow, 309-315
- Tremaine, R. Letter to the Editor, 7-8
- Turner, R.E. Letter to the Editor, 225
- Van Loben Sels, R.C. See Congdon, J.D.
- Van Schaik, C.P. See Griffiths, M.
- Vanderbilt White, C.A. See Garrott, R.A.
- Vermeij, G.J. Biogeography of Recently Extinct Marine Species: Implications for Conservation, 391-397
- Vidal, O. Aquatic mammal conservation in Latin America: problems and perspectives, 788-795
- Walters, J.R. See Reed, J.M.
- Wanink, J. See Goldschmidt, T.
- White, P.J. See Garrott, R.A.
- Wikramanayake, E.D. See Dinerstein, E.
- Wilcove, D.S., McMillan, M., Winston, K.C. What Exactly is an Endangered Species? An Analysis of the U.S. Endangered Species List: 1985-1991, 87-93
- Wilkes, G.H. Origin and Geography of Cultivated Plants (book review), 962-963
- Willers, B. Letter to the Editor, 452-453
- Winston, K.C. See Wilcove, D.S.
- Witte, F. See Goldschmidt, T.
- Wolfe, R.W. See McClanahan, T.R.
- Yonzor, P. See Hunter, M.L. Jr.
- Young, T.P. Letter to the Editor, 750-751
- Zawada, N. See Porncluzi, P.



